

SEQUENCE LISTING

```
<110> Anderson, Keith
Agerso, Henrik
```

- <120> Transepithelial Delivery of GLP-Derivatives
- <130> 6116.200-US
- <140> US 09/757,788
- <141> 2001-01-10
- <150> US 60/177,002
- <151> 2000-01-19
- <150> DK 2000 00030
- <151> 2000-01-11
- <160> 5
- <170> FastSEQ for Windows Version 4.0
- <210> 1
- <211> 39
- <212> PRT
- <213> Artificial Sequence
- <220>
- <223> Synthetic
- <221> MUTAGEN
- <222> 2
- <223> Xaa = Ala, Gly, Ser, Thr, Leu, Ile, Val, Glu Asp, Met or Lys
- <221> MUTAGEN
- <222> 3
- <223> Xaa = Glu, Asp, or Lys
- <221> MUTAGEN
- <222> 5
- <223> Xaa =Thr, Ala, Gly, Ser, Leu, Ile, Val, Glu, Asp, or Lys
- <221> MUTAGEN
- <222> 8
- <223> Xaa = Ser, Ala, Gly, Thr, Leu, Ile, Val, Glu, Asp, or Lys
- <221> MUTAGEN
- <222> 10
- <221> MUTAGEN
- <222> 11

```
<223> Xaa = Ser, Ala, Gly, Thr, Leu, ·Ile, Val, Glu, Asp
      or Lys
<221> MUTAGEN
<222> 12
<223> Xaa = Ser, Ala, Gly, Thr, Leu, Ile, Val, Glu, Asp,
      or Lys
<221> MUTAGEN
<222> 13
<223> Xaa = Tyr, Phe, Trp, Glu, Asp, or Lys
<221> MUTAGEN
<222> 14
<223> Xaa = Leu, Ala, Gly, Ser, Thr, Leu, Ile, Val, Glu,
      Asp, or Lys
<221> MUTAGEN
<222> 15
<223> Xaa = Glu, Asp, or Lys
<221> MUTAGEN
<222> 16
<223> Xaa = Gly, Ala, Ser, Thr, Leu, Ile, Val, Glu, Asp,
      or Lys
<221> MUTAGEN
<222> 17
<223> Xaa = Gln, Asn, Arg, Glu, Asp, or Lys
<221> MUTAGEN
<222> 18
<223> Xaa = Ala, Gly, Ser, Thr, Leu, Ile, Val, Arg, Glu,
      Asp, or Lys
<221> MUTAGEN
<222> 19
<223> Xaa = Ala, Gly, Ser, Thr, Leu, Ile, Val, Glu, Asp,
      or Lys
<221> MUTAGEN
<222> 20
<223> Xaa = Lys, Arg, Gln, Glu, Asp or His
<221> MUTAGEN
<222> 21
<223> Xaa = Glu, Asp or Lys
<221> MUTAGEN
<222> 24
<223> Xaa = Ala, Gly, Ser, Thr, Leu, Ile, Val, Glu, Asp,
      or Lys
<221> MUTAGEN
<222> 25
<223> Xaa =Trp, Phe, Tyr, Glu, Asp, or Lys
```

1

```
<221> MUTAGEN
<222> 26
<223> Xaa = Leu, Gly, Ala, Ser, Thr, Ile, Val, Glu, Asp, or Lys
<221> MUTAGEN
<222> 27
<223> Xaa = Val, Gly, Ala, Ser, Thr, Leu, Ile, Glu, Asp, or Lys
<221> MUTAGEN
<222> 28
<223> Xaa = Lys, Arg, Glu, Asp, or His
<221> MUTAGEN
<222> 29
<223> Xaa = Gly, Ala, Ser, Thr, Leu, Ile, Val, Glu, Asp or Lys
<221> MUTAGEN
<222> 30
<223> Xaa = Arg, Lys, Glu, Asp, or His
<221> MUTAGEN
<222> 31
<223> Xaa = Gly, Ala, Ser, Thr, Leu, Ile, Val, Glu, Asp, or Lys or is deleted
<221> MUTAGEN
<222> 32
<223> Xaa = Arg, Lys, Glu, Asp, or His, or is deleted
<221> MUTAGEN
<222> 33
<223> Xaa = Arg, Lys, Glu, Asp, or His, or is deleted
<221> MUTAGEN
<222> 34
<223> Xaa = Asp, Glu, or Lys, or is deleted
<221> MUTAGEN
<222> 35
<223> Xaa = Phe, Trp, Tyr, Glu, Asp, or Lys, or is deleted
<221> MUTAGEN
<222> 36
<223> Xaa = Pro, Lys, Glu, or Asp, or is deleted
<221> MUTAGEN
<222> 37
<223> Xaa = Glu, Asp, or Lys, or is deleted
<221> MUTAGEN
<222> 38
<223> Xaa = Glu, Asp, or Lys, or is deleted
<221> MUTAGEN
<222> 39
<223> Xaa = Val, Glu, Asp, or Lys, or is deleted
```

L

```
His Xaa Xaa Gly Xaa Phe Thr Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa
                5
                                    10
Xaa Xaa Xaa Xaa Phe Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
                                25
Xaa Xaa Xaa Xaa Xaa Xaa
        35
<210> 2
<211> 31
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 2
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
                5
                                    10
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro
            20
                                25
<210> 3
<211> 31
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 3
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
                                    10
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Tyr
                                25
            20
<210> 4
<211> 40
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 4
His Ser Asp Gly Thr Phe Ile Thr Ser Asp Leu Ser Lys Gln Met Glu
                                    10
                 5
Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro
            20
                                25
Ser Ser Gly Ala Pro Pro Pro Ser
        35
<210> 5
<211> 40
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
```